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### Diminished platelet adherence to type V collagen.

**Parsons TJ, Haycraft DL, Hoak JC, Sage H.**

Different types of collagen vary in their influence on platelet reactivity. Collagen Types III, IV, and V were obtained from human placental tissue, and Type I collagen was prepared from rat skin. Each collagen type was coated onto a plastic surface. Each collagen-coated surface or appropriate plastic surface control was studied using citrated human 51Cr-labeled platelet-rich plasma in both the presence and absence of 10 microM adenosine 5'-diphosphate (ADP). Both unstimulated and ADP-induced platelet adherence were: 1) reduced by Type V collagen coating in comparison to uncoated wells; and 2) increased by Types III and IV collagen coating in comparison to Type V coated or plastic surfaces. Addition of the fast-acting thrombin inhibitor dansylarginine (DAPA) had no significant effect on unstimulated and ADP-induced platelet adherence to Type III, IV or V collagen-coated surfaces. Type I collagen-coated surfaces, studied only in the presence of DAPA, caused greater platelet adherence than those coated with Types III, IV, or V collagen. We conclude that Type V collagen may be less thrombogenic than Types I, III, or IV.

PMID: 6651614 [PubMed - indexed for MEDLINE]

Jun 21 2006 12:14:26